



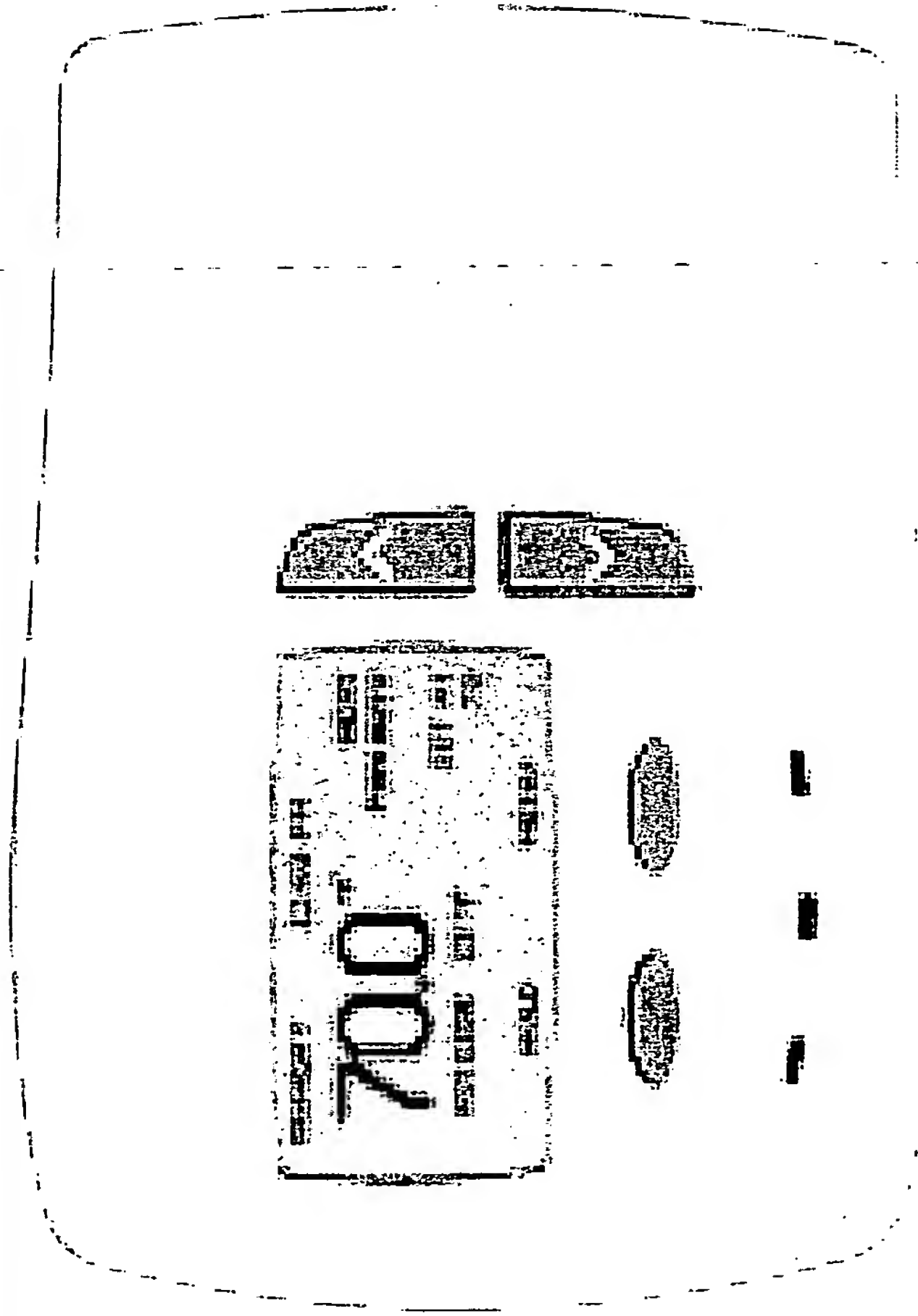
# User's Manual

## Menu Driven Display

Fully Programmable

24 VAC with Worry-Free  
Memory Storage

English, Spanish or  
French Display Option



Two Year Warranty

110-1023C

**BEST AVAILABLE COPY**

# How do I change the time of day and day of the week?

MONDAY3:29 PM

78.1

HOLD TEMP

COOL

FAN AUTO

SET AT78

MENU

From the main screen press MENU.

DAY / TIME

FAN

USER SETTINGS

INSTALLER SETTINGS

HOME

MENU

BACK▲

Use the UP or DOWN arrows to highlight DAY/TIME.  
Press SELECT.

DAY

FRIDAY

HOUR

12 PM

MINUTES

06

SET DAY & TIME

MAIN MENU

SET

Use the UP or DOWN arrow to highlight DAY, HOUR or MINUTES. Press SET.

DAY

FRIDAY

HOUR

12 PM

MINUTES

31

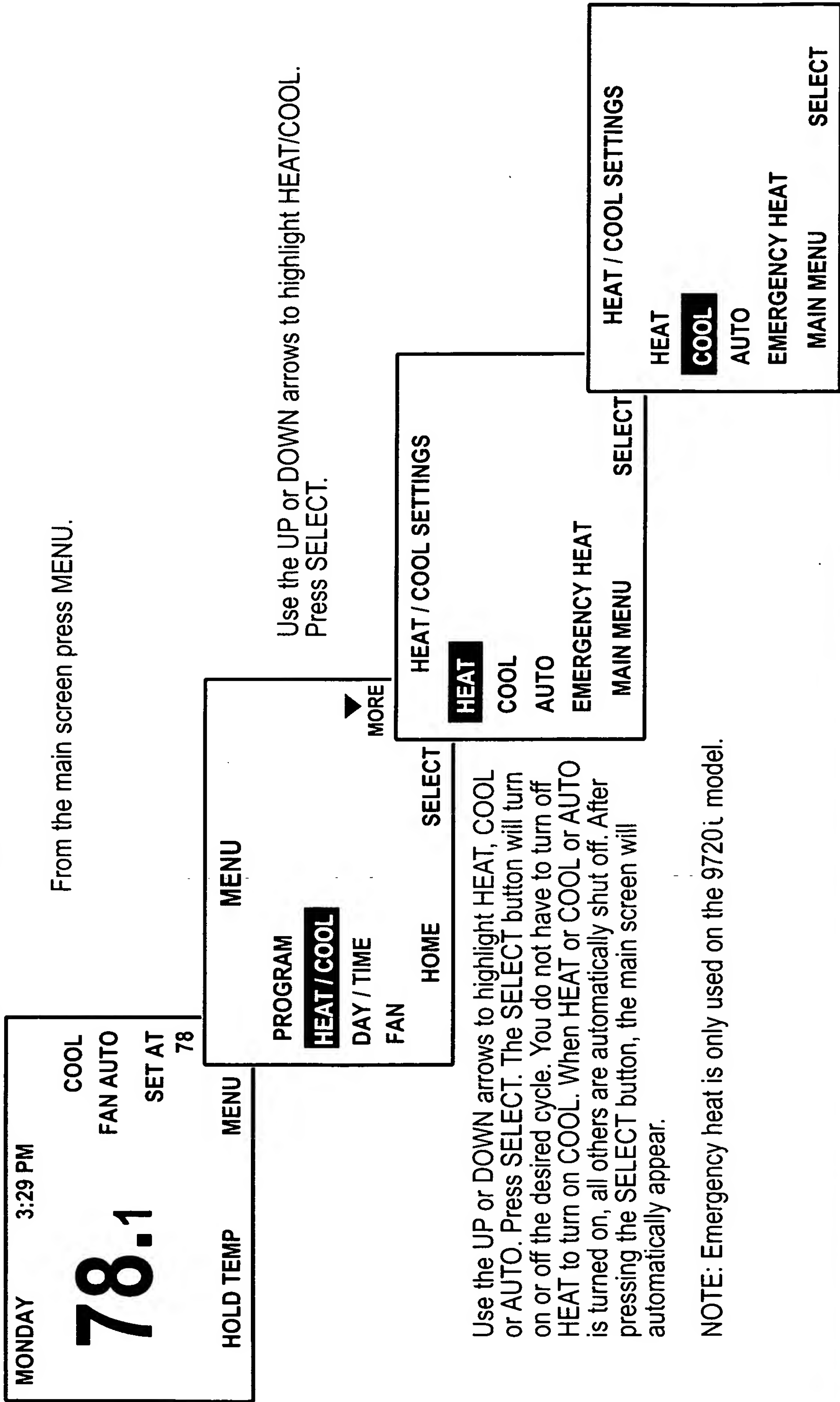
SET DAY & TIME

MAIN MENU

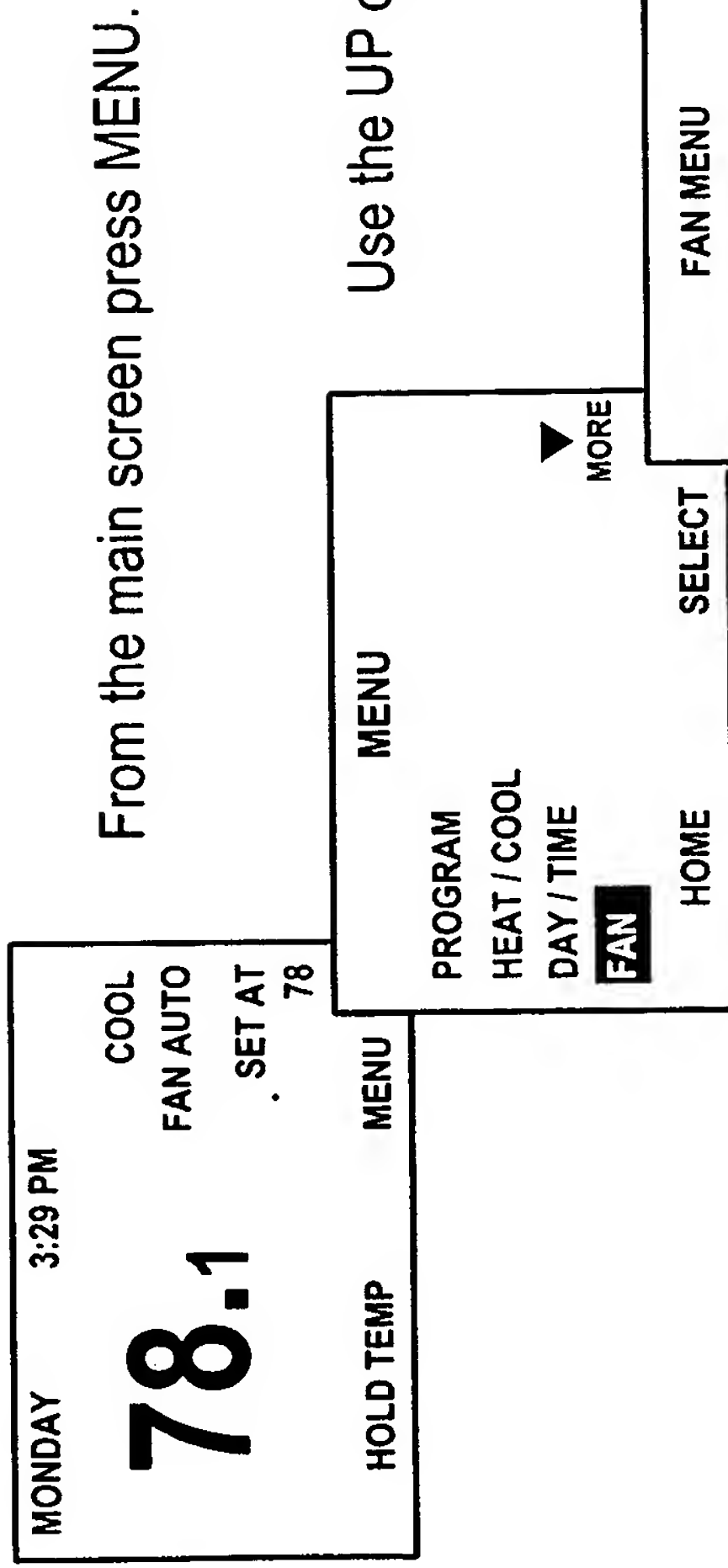
SET

Use the UP or DOWN arrow to scroll through the days of the week, hours or minutes.  
Press SET to select desired value.  
Press MAIN MENU when complete.

# How do I turn on the heating or cooling cycles?



## How do I cycle the fan?



Use the UP or DOWN buttons until FAN is highlighted. Press SELECT.

Use the UP or DOWN buttons to highlight FAN settings. Press SELECT.

Three choices are available:  
**ON** will turn the fan on continuously.  
**AUTO** will turn the fan on only when there is a call for heating or cooling.  
**INTERMITTENT** will turn the fan on for a set period of time for a given interval. Highlight the choice you desire and press SELECT.

## How does INTERMITTENT FAN work?

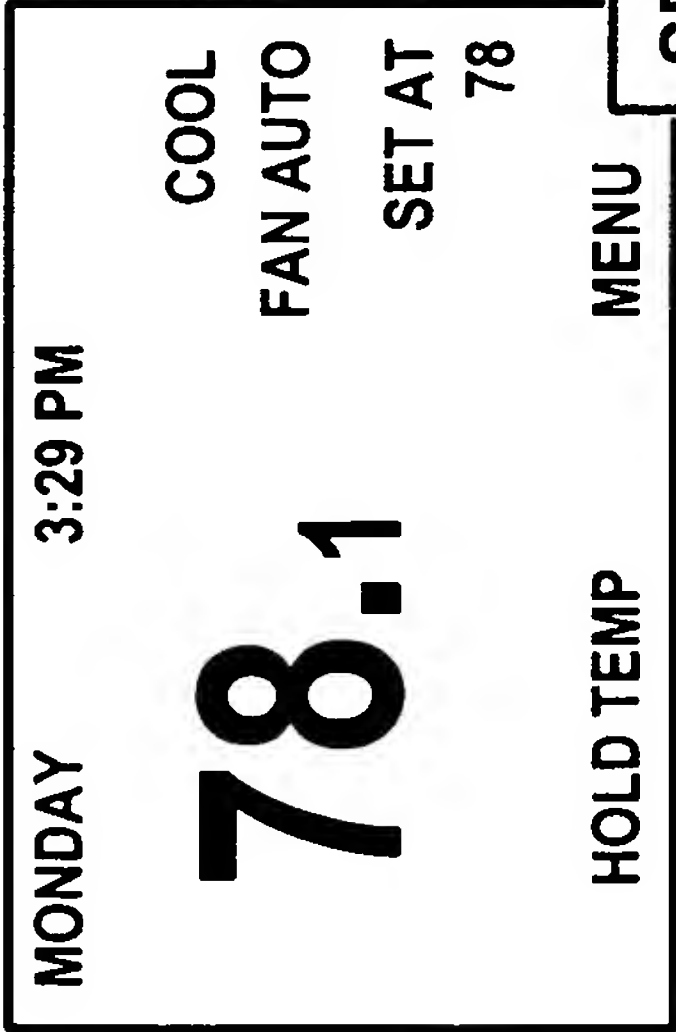
INTERMITTENT FAN		
<b>ON</b>	TIME	5 MIN
OFF	TIME	20 MIN
FAN MENU		SELECT

INTERMITTENT will turn the fan on for a set period of time for a given interval.

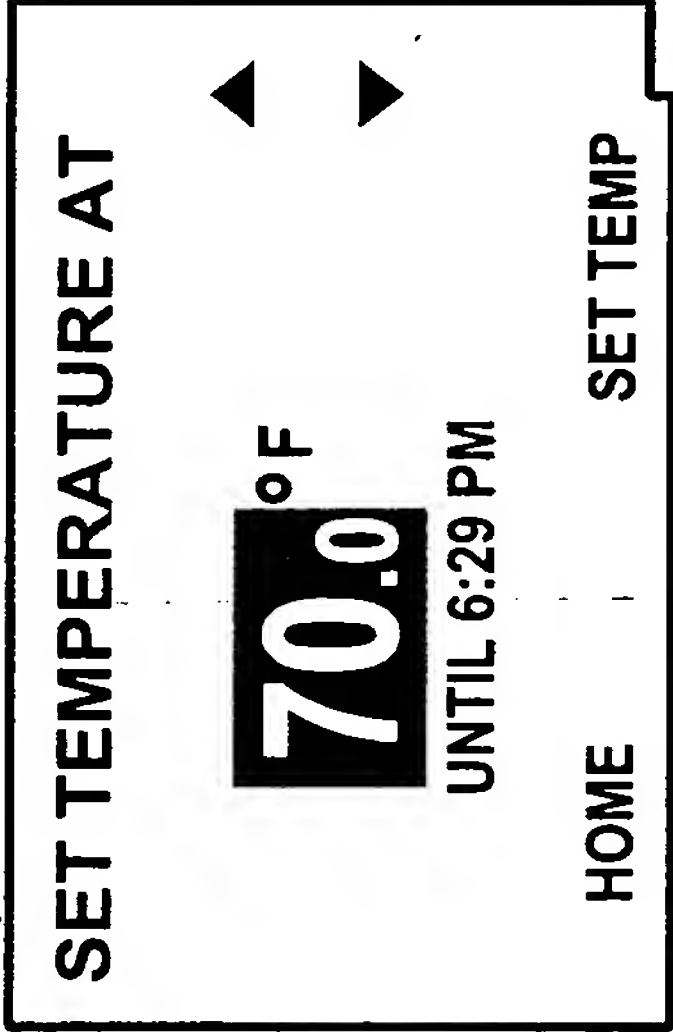
The thermostat will cycle the fan on for the set ON cycle. The fan will remain off for the set OFF cycle.

If the HVAC system runs for a longer period than the ON cycle, the OFF cycle will start counting over again when the system shuts off.

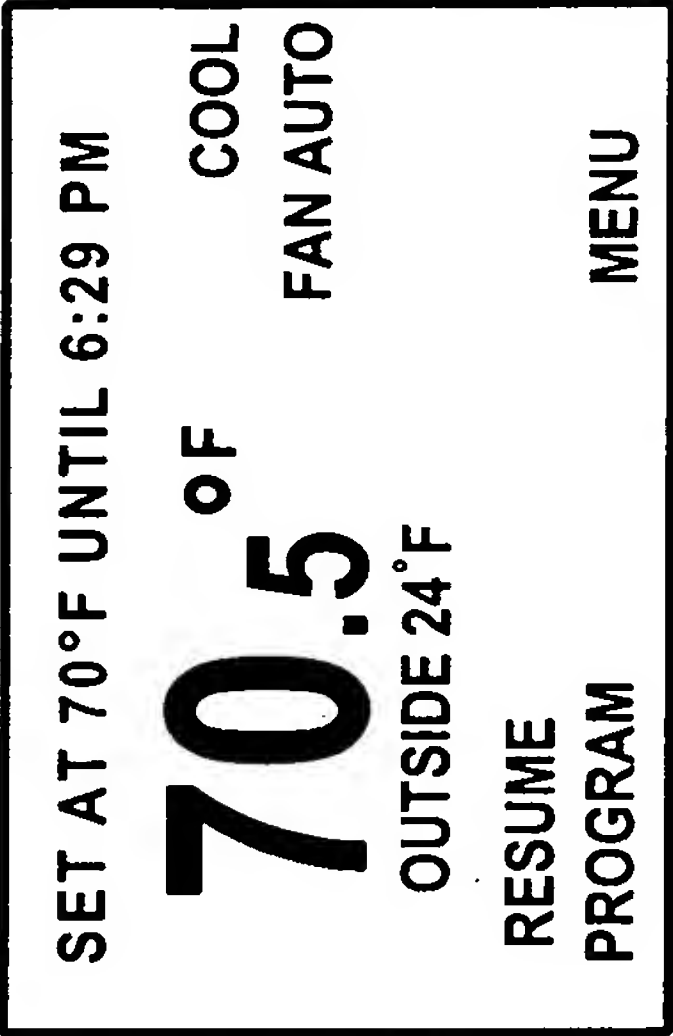
# How do I temporarily change the temperature?



From the main screen, press the UP or DOWN button. The screen will change to the following.



Use the UP or DOWN button to adjust to the desired temperature. This is a temporary 3-hour hold or until the next programmed event, whichever is shorter. For a longer duration see page 9.



After pressing the SET TEMP button or after 5 seconds the screen will indicate the new setpoint and its duration. To return to the normal operating program mode, press RESUME PROGRAM.

# Can I set a temporary adjustment for longer than 3 hours?

MONDAY3:29 PM

78.1

COOL  
FAN AUTO  
SET AT 78

HOLD TEMP

MENU

Yes you can! Press the HOLD TEMP button. The following screen appears.

HOLD SETTINGS

PERMANENT HOLD

**TEMPORARY HOLD**

VACATION HOLD

HOME

SELECT

Press the DOWN button to highlight TEMPORARY HOLD. Press SELECT.

TEMPORARILY AT

70.0°F

UNTIL 3:49 PM

HOME

SET TEMP

The temperature should be highlighted.  
Press the UP or DOWN button to adjust the temperature. Press SET TEMP.

TEMPORARILY AT

70.0°F

UNTIL 3:49 PM

HOME

SET TIME

The time should be highlighted. Press the UP or DOWN button to adjust the time. Press SET TIME.

SET AT 70°F UNTIL 8:29 PM

77.0°F

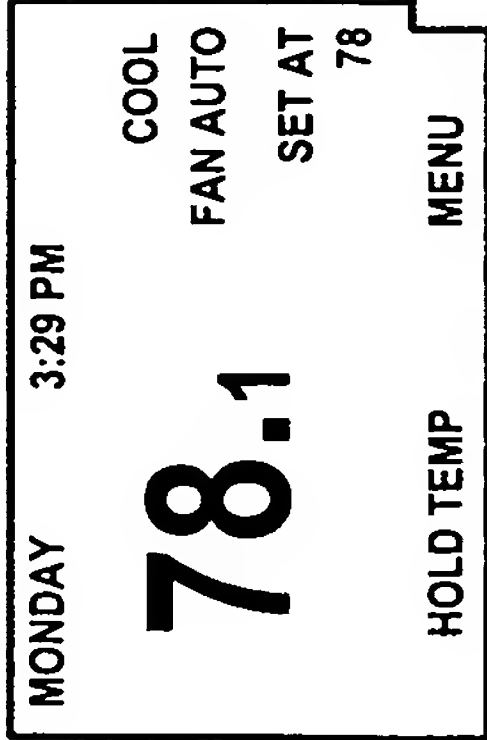
COOL  
FAN AUTO

RESUME  
PROGRAM

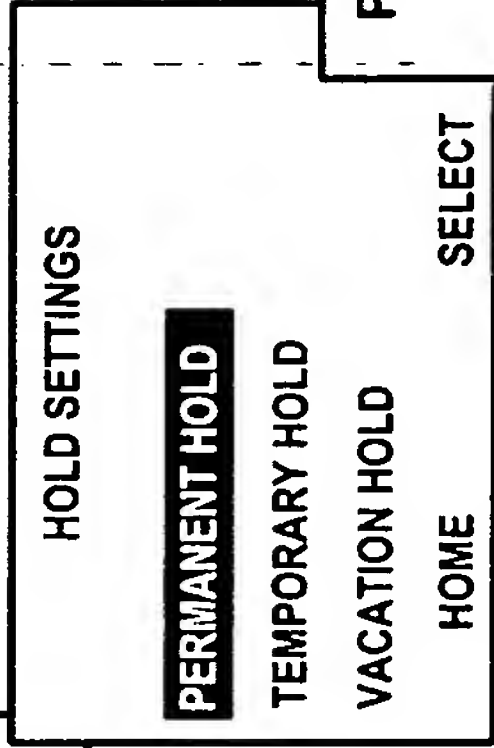
MENU

The main screen will now indicate a TEMPORARY HOLD until the desired time. Press RESUME PROGRAM to return to the program operating mode.

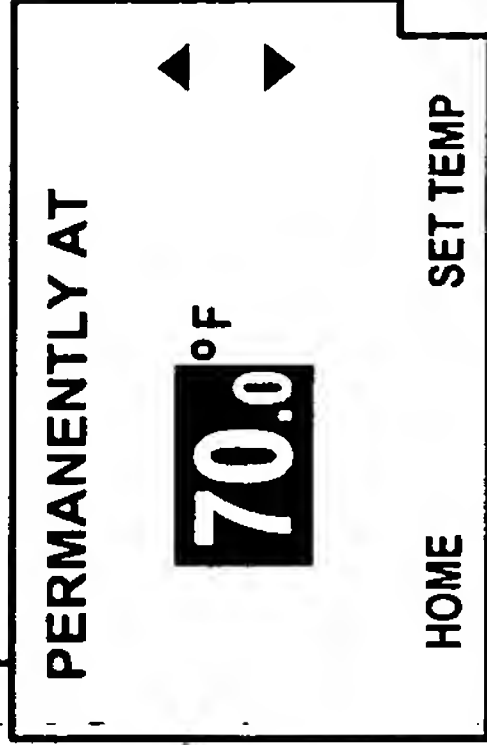
# Can I set the thermostat to hold one temperature indefinitely?



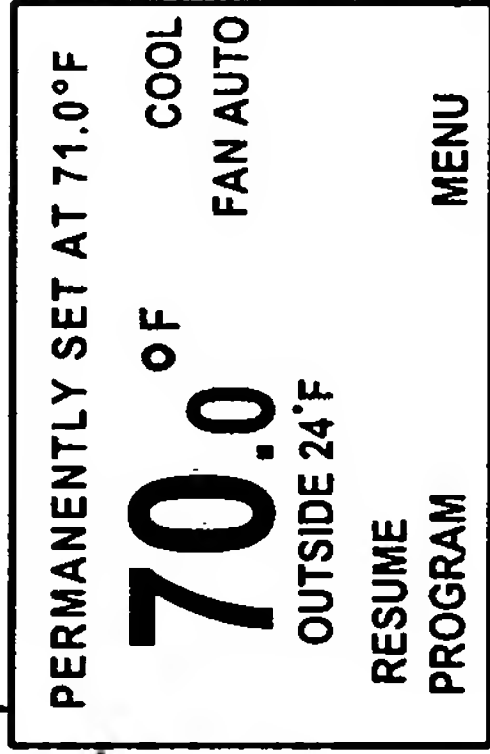
You can do that too! From the main screen press the HOLD TEMP button. The following screen appears.



The PERMANENT HOLD feature should be highlighted. If it is not, use the UP or DOWN arrow to highlight it. Press SELECT.

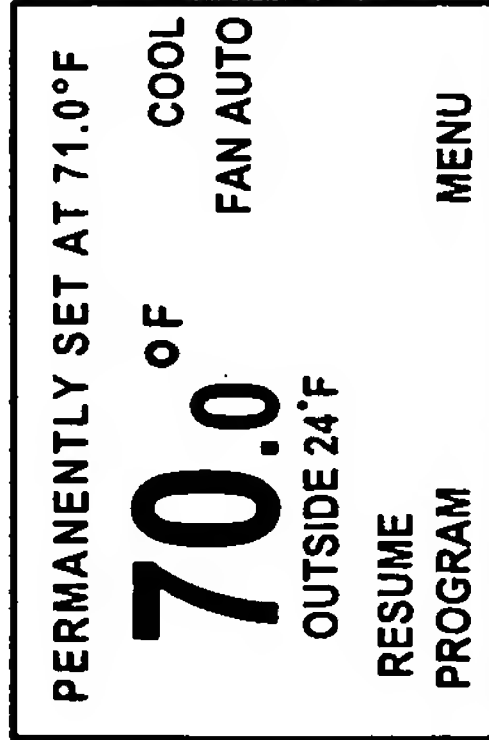


Use the UP or DOWN arrow to set the temperature to the desired level. Press SET TEMP.



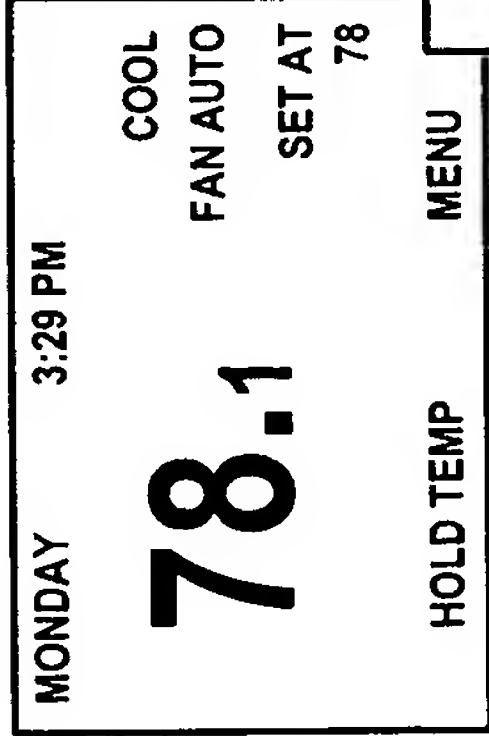
The main screen will now indicate a PERMANENT HOLD. Press RESUME PROGRAM to return to the program operating mode.

# How do I return to the Program Mode after being in HOLD?

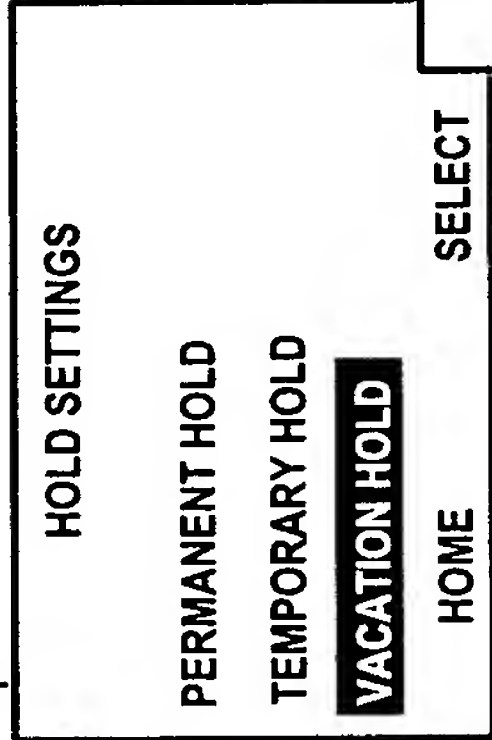


Simply press the RESUME PROGRAM button. This works from all HOLD screens.

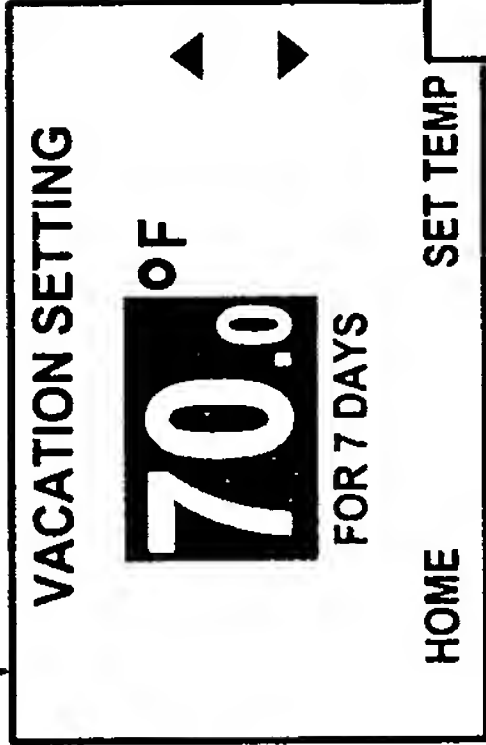
## How do I set the Vacation Mode?



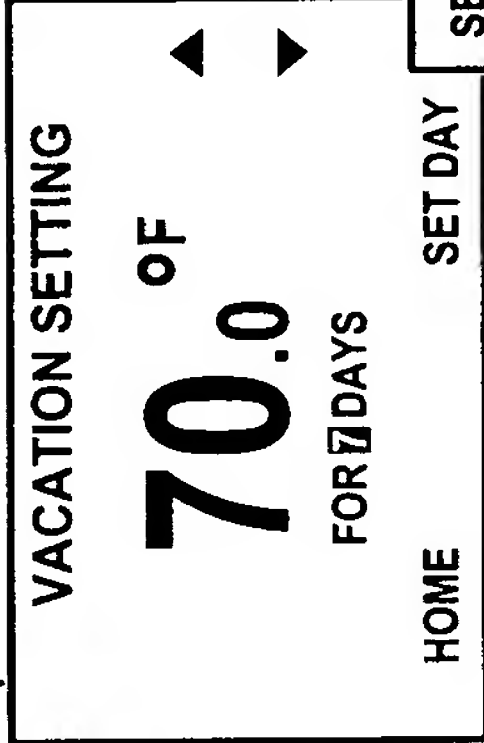
Take a trip and don't worry about the temperature! From the main screen press the HOLD TEMP button. The following screen appears.



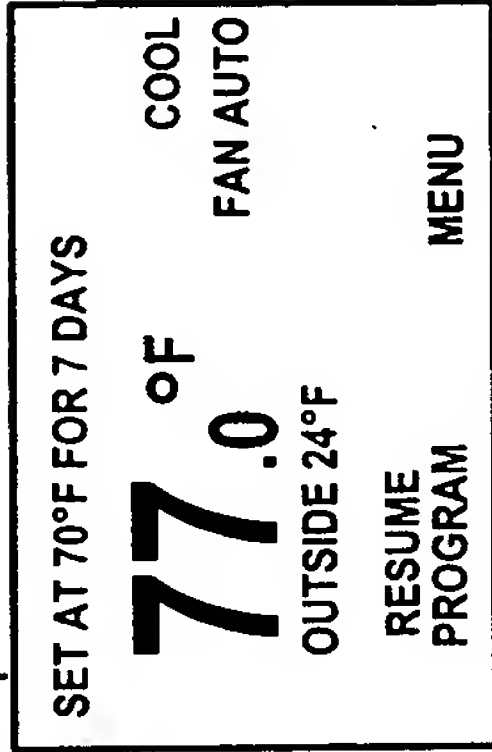
Use the UP or DOWN arrow to highlight the VACATION HOLD feature. Press SELECT.



The temperature should be highlighted. Use the UP or DOWN arrow change to the desired temperature. Press SET TEMP.



The number of days should be blinking. Use the UP or DOWN arrow to set the length of your vacation. Press SET DAY.



The main screen will now indicate the VACATION settings. Press RESUME PROGRAM to cancel and return to the program operating mode.



# How do I program my thermostat?

MONDAY3:29 PM

78.1

HOLD TEMP

COOL

FAN AUTO

SET AT 78

MENU

From the main screen press the MENU button.

MENU

PROGRAM

HEAT / COOL

DAY / TIME

FAN

HOME

SELECT

Use the UP or DOWN button to highlight PROGRAM. Press SELECT.

SELECT PROGRAM DAYS

MON TO SUN

MON TO FRI

SAT TO SUN

MONDAY

MAIN MENU

SELECT

You can select a variety of programming. Make your selection and press SELECT. MON-SUN allows every day to be set the same. MON-FRI allows for weekday programming while SAT-SUN will adjust weekends differently. You also can select each day of the week individually. NOTE: Even if you select MON-SUN, you still can go back and change individual days to suit your lifestyle.

MONDAY PROGRAM

WAKE

MORN

EVE

NIGHT

06:30A

08:30A

04:30P

10:30P

HEAT

70.0

62.0

70.0

62.0

COOL

78.0

85.0

78.0

82.0

MAIN MENU

SELECT

Use the UP or DOWN button to select the event to program. The thermostat can be selected for 2, 4, or 6 events per day. See USER SETTINGS for EVENTS PER DAY selection. After selecting the event to program, press SELECT.

Please go to the next page for a continued discussion on "How to program your thermostat."

# How do I program my thermostat? (Con't.)

MONDAY PROGRAM			
	WAKE	HEAT	COOL
	06:00A	70.0	78.0
MORN	08:30A	62.0	85.0
EVE	04:30P	70.0	78.0
NIGHT	10:30P	62.0	82.0
MAIN MENU		SET TIME ▼	

The time for the first event should be highlighted. Use the UP or DOWN key to change the time. Press SET TIME.

MONDAY PROGRAM			
	WAKE	HEAT	COOL
	06:30A	70.0	78.0
MORN	08:30A	62.0	85.0
EVE	04:30P	70.0	78.0
NIGHT	10:30P	62.0	82.0
MAIN MENU		SET HEAT ▼	

The heating setpoint for the first event will be highlighted. Use the UP or DOWN key to change the desired temperature. Press SET HEAT.

MONDAY PROGRAM			
	WAKE	HEAT	COOL
	06:30A	70.0	78.0
MORN	08:30A	62.0	85.0
EVE	04:30P	70.0	78.0
NIGHT	10:30P	62.0	82.0
MAIN MENU		SET COOL ▼	

The cooling setpoint for the first event will be highlighted. Use the UP or DOWN key to change the desired temperature. Press SET COOL.

MONDAY PROGRAM			
	WAKE	HEAT	COOL
	06:30A	70.0	78.0
MORN	08:30A	62.0	85.0
EVE	04:30P	70.0	78.0
NIGHT	10:30P	62.0	82.0
MAIN MENU		SELECT ▼	

The second event will now be highlighted. Use the UP or DOWN key to change events if desired. When the desired event is highlighted, press SELECT. Continue programming until all events are programmed.

## How do I copy one day's program to another day?

MONDAY PROGRAM ▲			
MORN	08:30A	HEAT 62.0	COOL 85.0
EVE	04:30P	70.0	78.0
NIGHT	10:30P	62.0	82.0
<b>COPY</b>			
MAIN MENU		SELECT	

In the program screen, press the DOWN button until COPY is highlighted.

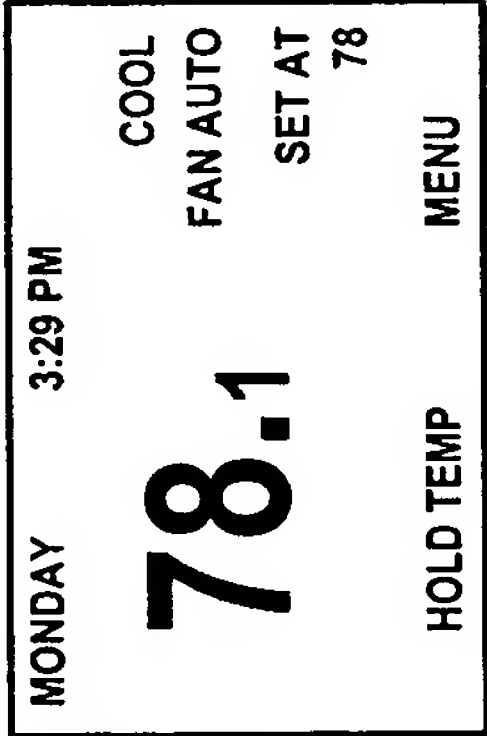
COPY MONDAY TO	
TUESDAY	YES
WEDNESDAY	
THURSDAY	
<b>FRIDAY</b>	<b>YES</b>
FINISHED	YES / NO

Use the UP or DOWN button to highlight the day to copy to. Press YES / NO. A YES will appear next to the day. Do this for each day to which that program is to be copied. Press FINISHED when complete.

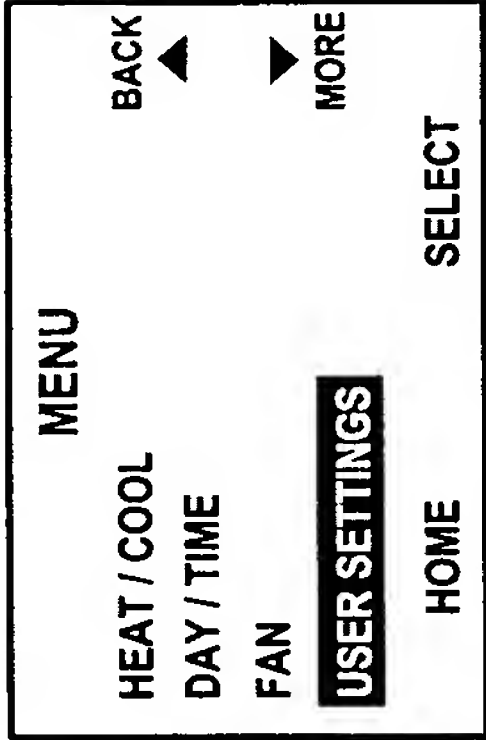
CONTINUE PROGRAMMING?	
NO	YES

After pressing FINISHED, you can choose to program other days or exit. YES will take you back to the Select Program Days screen. NO will exit you to the main screen.

# What are the USER settings?



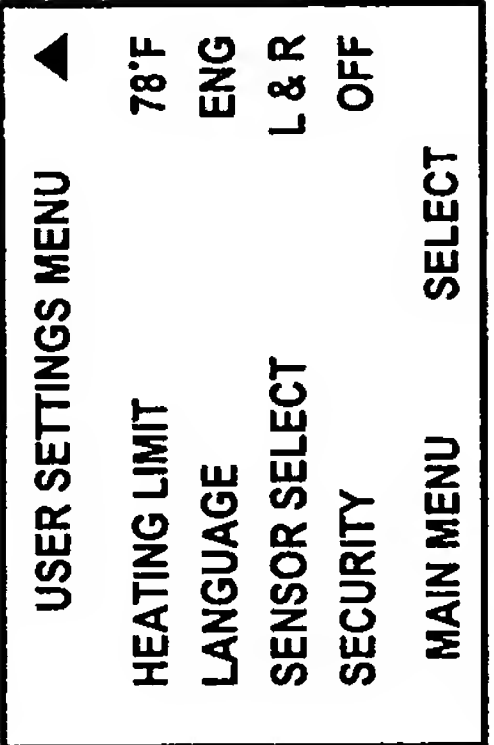
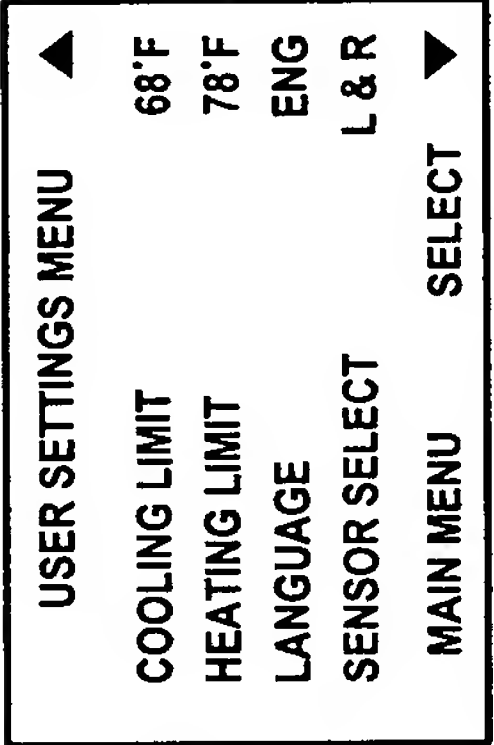
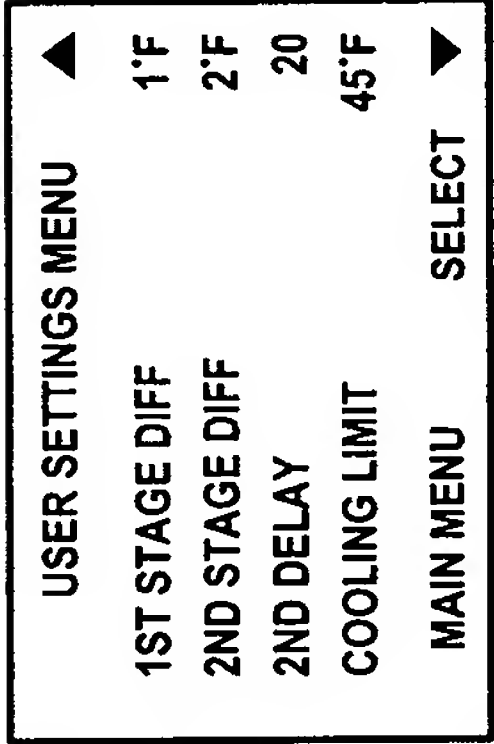
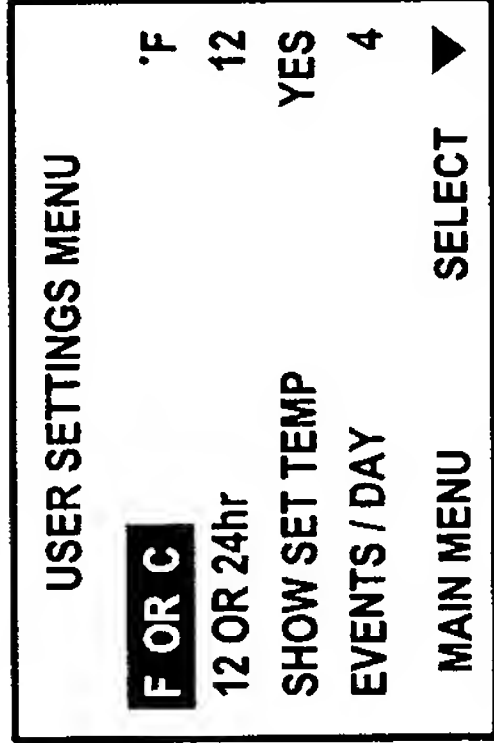
The USER SETTINGS can change the way information is displayed on the thermostat and help to optimize comfort. It's one way to truly personalize your new thermostat.



To get to the USER SETTINGS, press the MENU button from the main screen.

USER SETTINGS are below the FAN settings. Use the DOWN button to scroll below the screen. Press SELECT.

Choose the setting you would like to change. When the SETTING is highlighted, press SELECT. There are 13 USER SETTINGS in all as listed below. For detailed information on each user setting, please go to the next page.



Detailed Information on the **USER SETTINGS** (Or what do these **USER SETTINGS** do?)

To select a **USER SETTING**, use the **UP** or **DOWN** button to highlight the desired value. Press **SELECT** to select desired value.

TEMPERATURE	
<b>F</b> °C	
USER MENU	SELECT


TEMPERATURE: Fahrenheit or Celsius  
Temperature will be displayed in F or C.

CLOCK	
<b>12 HOUR</b> 24 HOUR	
USER MENU	SELECT

CLOCK SETTINGS  
Displays time in standard 12-hour format or military format.

DISPLAY SET POINT TEMPERATURE ?	
<b>YES</b> NO	
USER MENU	SELECT

SETPOINT TEMPERATURE  
Each event has a setpoint temperature. Choose whether to display this value or not.

SELECT EVENTS / DAY EVENTS / DAY <b>4</b>	
	
0    6    12    18    24	
USER MENU	SELECT

NUMBER OF EVENTS PER DAY  
Select events per day. Choose from 2, 4, or 6 events per day.

## More Detailed Information on the USER SETTINGS.

DIFFERENTIAL SETTING		
1ST DIFF	1°F	
2ND DIFF	2°F	
<b>2ND DELAY</b>	20 MIN	
USER MENU		SELECT

### DIFFERENTIAL SETTINGS

The temperature differential is your comfort level. A lower differential means your system may cycle with greater frequency but will control closer to desired setpoint temperature. The second stage delay is a timed delay to indicate how much time should pass before the second stage is turned on. This is an energy saving feature. To use less energy, set this higher. For greater comfort, set it lower.

SET COOLING LIMIT		
LOWEST COOLING SETTING ALLOWED	<b>45°F</b>	
USER MENU		SELECT

### HEATING and COOLING LIMITS

To prevent individuals (probably your kids) from adjusting the thermostat too hot or too cold, you can limit the maximum setting for the heating and cooling modes. This will help you save on energy costs.

SET HEATING LIMIT		
HIGHEST HEATING SETTING ALLOWED	<b>90°F</b>	
USER MENU		SELECT

SELECT A LANGUAGE		
<b>ENGLISH</b>		
ESPAÑOL		
FRANÇAIS		
USER MENU		SELECT

### LANGUAGE SETTING

This screen allows you to choose the displayed language; English, French, or Spanish.

## More Detailed Information on the USER SETTINGS.

SENSOR SETTINGS	
USE LOCAL SENSOR	
AVG. LOCAL / REMOTE	
USE REMOTE SENSOR	
USER MENU	SELECT

### SENSOR SETTINGS

This screen will appear when a remote indoor sensor (9020i) is connected to the thermostat. USE LOCAL SENSOR will disable the remote sensor and only sense from the thermostat. AVG. LOCAL/REMOTE will take a temperature reading from both the thermostat and the remote sensor and average the two for even temperature control. USE REMOTE SENSOR will disable the sensor in the thermostat and only control from the remote location.

SECURITY	
CHANGE TEMP. ONLY	
PREVENT ALL CHANGES	
USER MENU	SELECT

### SECURITY SETTINGS

In order to prevent tampering with the program and your desired settings, two levels of security are available. The first will allow only temporary changes to the temperature. It protects all other programmed setpoints. The second will restrict changes to EVERYTHING, including temporary changes to the temperature.

ENTER SECURITY CODE	
FOR TEMPERATURE	
0 0 0 0	
USER MENU	SELECT

### SECURITY CODE

In this screen you enter a four-digit code. Use the UP or DOWN button to change the first value, press SELECT. The second digit will be highlighted. Repeat for all four values. And don't forget your code. If you do, you will have to reset the entire thermostat and that will erase all the schedules you've programmed into the unit.

## When would I need to change the USER settings?

About the only features you may need to change are the FILTER INTERVAL (in case you get a new type of high efficiency filter), the temperature differentials (if you desire additional comfort), and the security settings. All the other settings probably will not need to be changed.



## What are the **INSTALLER** settings?

The **INSTALLER SETTINGS** are setup during the initial installation. They tell the thermostat how to function with your heating or cooling equipment. The following is a brief overview and discussion of these settings.

INSTALLER SETTINGS			▲
SYSTEM SETUP	GAS		
RESIDUAL COOL	60		
LOW BALANCE	45°F		
HIGH BALANCE	95°F		
HOME		SELECT ▼	

INSTALLER SETTINGS			▲
AUTOCHANGEOVER	OFF		
EER	ON		
DEADBAND	3°F		
SECURITY	OFF		
HOME		SELECT ▼	

INSTALLER SETTINGS			▲
SECURITY	OFF		
CONTACT INFO			
SERVICE INT			
REMINDER	RUN		
MAIN MENU		SELECT ▼	

SYSTEM SETUP	
FURNACE	
HEAT PUMP	
INSTALL MENU	SELECT

**SYSTEM SETUP**  
Choose the system component which the thermostat will control.

1ST STAGE HEATING	
<b>GAS/OIL</b>	
ELECTRIC	
INSTALL MENU	SELECT

**1st STAGE HEATING**  
The 9701i and the 9715i can have a gas/oil or electric first stage heating.  
Choose the energy source for 1st stage heating.



## INSTALLER settings (continued)

AUXILIARY HEAT	
STANDARD - COMP. =ON	
ADD ON - COMP. =OFF	
INSTALL MENU	SELECT

### AUXILIARY HEAT

The 9720i can be set to use your 2H/2C heat pump internal auxiliary heating or to use an external add-on source. The add-on feature will be used most often when a single stage heat pump uses a gas or electric furnace as its second stage of heating.

RESIDUAL COOL	
SECONDS DELAY <b>60</b>	
INSTALL MENU	SELECT

### RESIDUAL COOL

In order to get greater efficiency from the cooling system, the fan can be programmed to run for 0 (OFF), 30, 60, 90, or 120 seconds after the air conditioner has shut off.

BALANCE POINTS	
LOW BALANCE <b>45°F</b>	SELECT
HIGH BALANCE <b>95°F</b>	
INSTALL MENU	SELECT

### BALANCE POINTS

This screen will appear only when the optional outdoor sensor (9025i) is connected to the thermostat. When this sensor is used with the 9720i, you can set the lower and upper temperatures to disable or enable 2nd stage heat.

AUTO CHANGEOVER	
DISABLE	
ENABLE	
INSTALL MENU	SELECT

### AUTO CHANGEOVER

When turned on, the thermostat will switch automatically between heating and cooling to maintain the optimal temperature in your home.

# INSTALLER settings (continued)

ENERGY EFFICIENT RECOVERY	
DISABLE	
ENABLE	
USER MENU	SELECT

**ENERGY EFFICIENT RECOVERY**  
When turned on, the thermostat will look up to two hours before the next event and anticipate when to turn on to reach the desired temperature.

DEADBAND SETPOINT	
3°F	
USER MENU	SELECT

**DEADBAND SETPOINT**  
Deadband is used with the AUTO CHANGEOVER feature. The deadband is the temperature difference from the setpoint temperature during which the heating or cooling will not be turned on. This is adjustable from 2-8°F (1.0-4°C).

ENTER SECURITY CODE	
FOR INSTALLER	
SETTINGS	
0 0 0 0	
USER MENU	SELECT

**SECURITY CODE**  
Enter a code to prevent changes to the INSTALLER settings.

CONTACT INFORMATION

AIR EXPERTS  
1-555-555-1212

BACKEDIT

CONTACT INFORMATION

This allows the servicing HVAC contractor to put their name and phone number into the thermostat to remind you when service may be required.

SERVICE MONITOR MENU

SERVICE MONITOR980  
FILTER MONITOR980

INSTALL MENUSELECT

SERVICE MONITOR MENU

Two menus are available, the Service Monitor and the Filter Monitor. Both can be set based on the HVAC system run time or calendar based. See Reminder Interval.

The Service Monitor can be set from OFF to 360 Days in 30 day increments or OFF to 980 in 20 hour increments.

The Filter Monitor can be set from OFF to 360 Days in 30 day increments or OFF to 980 in 20 hour increments.

REMINDER PERIOD

RUN TIME  
CALENDAR TIME

INSTALL MENUSELECT

REMINDER INTERVAL

The Reminder Interval can be set for either HVAC System run time or based on the calendar.

If Run Time is chosen, the service reminder will be set in hours. After the HVAC System has been operating for the selected number of hours, a Service Reminder will be displayed informing you that service is suggested for your system.

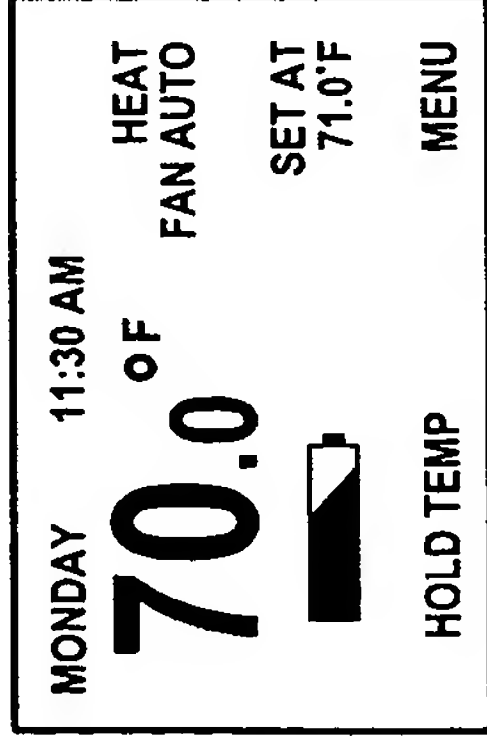
If Calendar Time is chosen, the service reminders will be set in days. After the selected number of days has passed, a Service Reminder will be displayed informing you that service is suggested for your system.

When would I need to change the **INSTALLER settings?**

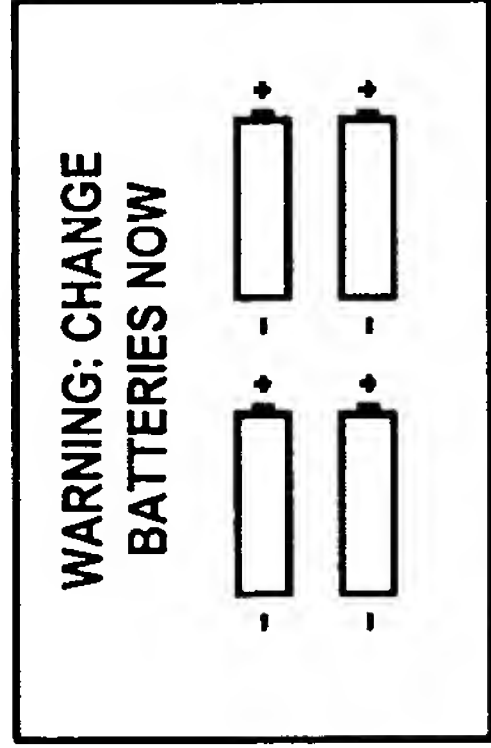
NEVER! The **INSTALLER SETTINGS** are selected based on the type of equipment you have in your home. This feature should be set only by a certified HVAC technician. Changing these settings could result in higher energy costs and may even damage your equipment. There is a security lock on this feature to prevent tampering. **USE IT!**

## When should I change the batteries?

Only the model 9700i operates with batteries. The 9701i, 9715i and 9720i operate from power provided by your heating/cooling system.



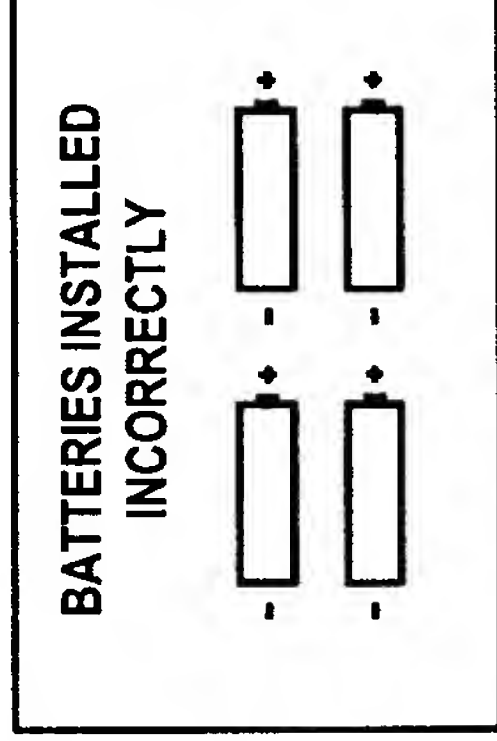
Generally the batteries will last 18-24 months. The thermostat will tell you when to change the batteries. A battery symbol will appear just below the temperature display. The thermostat will continue to operate for a short period of time with this notification on the display. The low battery warning supercedes all other notifications including outdoor temperature and the filter monitor.



If the WARNING screen is displayed, the thermostat will shut down all operations, including heating and cooling. It's important to change the batteries promptly if this screen appears.

## How do I change the batteries?

Simply slide the battery door to the right. Remove the two right most batteries first. Then remove the two left batteries. The screen to the left will appear. This screen will help you orient the new batteries. Replace with four fresh AA alkaline batteries. REPLACEMENT TIP: It's easier to replace the two left most batteries first, then the right ones.





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